



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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# PRODUCT INFORMATION

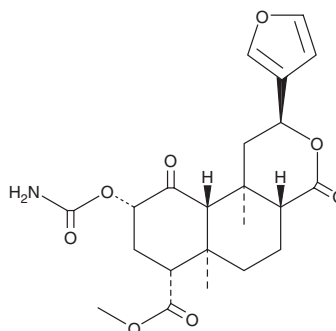


## Salvinorin A Carbamate

Item No. 22245

**CAS Registry No.:** 858345-57-0  
**Formal Name:** (2S,4aR,6aR,7R,9S,10aS,10bR)-9-[[aminocarbonyloxy]-2-(3-furanyl)dodecahydro-6a,10b-dimethyl-4,10-dioxo-2H-naphtho[2,1-c]pyran-7-carboxylic acid, methyl ester

**MF:** C<sub>22</sub>H<sub>27</sub>NO<sub>8</sub>  
**FW:** 433.5  
**Purity:** ≥90%  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Salvinorin A carbamate is supplied as a crystalline solid. A stock solution may be made by dissolving the salvinorin A carbamate in the solvent of choice. Salvinorin A carbamate is soluble in organic solvents such as acetonitrile, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of salvinorin A carbamate in acetonitrile and DMF is approximately 1 mg/ml and approximately 2 mg/ml in DMSO.

Salvinorin A carbamate is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, salvinorin A carbamate should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Salvinorin A carbamate has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

Salvinorin A carbamate is a potent  $\kappa$ -opioid receptor (KOR) full agonist that is almost as potent as salvinorin A (Item No. 11487) with EC<sub>50</sub> values of 6.2 and 4.5 nM, respectively, for activation of the human KOR to enhance binding of [<sup>35</sup>S]GTPγS.<sup>1</sup> The addition of a carbamate group to salvinorin A increases biological stability by decreasing deacetylation.

### Reference

1. Béguin, C., Richards, M.R., Wang, Y., *et al.* Synthesis and *in vitro* pharmacological evaluation of salvinorin A analogues modified at C(2). *Bioorg. Med. Chem. Lett.* **15(11)**, 2761-2765 (2005).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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